Name of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	KSRRB 300-1. **Earthwork excavation by manual means for roads, drains** & similar works in ordinary soil exeavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
	RCC Drain						
	Reva College Rd						
	RHS From Main Rd						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 51.60m	1	21.60	1.10	1.00	23.76	
	Gap						
	Ch:51.60 to 60.60m	1	9.00	1.10	1.00	9.90	
	Ch:60.60 to 89.10m	1	28.50	1.10	1.00	31.35	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 60.00m	1	30.00	1.10	1.00	33.00	
	Ch:60.00 to 65.50m	1	5.50	1.10	1.00	6.05	
	Ch:65.50 to 95.50m	1	30.00	1.10	1.00	33.00	
	Ch:95.50 to 125.50m	1	30.00	1.10	1.00	33.00	
	Ch:125.50 to 142.30m	1	16.80	1.10	1.00	18.48	
	OM Circle						
	1st Cross Rd						
	RHS From Main Rd						
	Ch:0.00 to 22.00m	1	22.00	1.10	1.00	24.20	
	Ch:22.00 to 25.20m	1	3.20	1.10	1.00	3.52	
	Ch:25.20 to 32.70m	1	7.50	1.10	1.00	8.25	
	Ch:32.70 to 42.20m	1	9.50	1.10	1.00	10.45	
	Ch:42.20 to 72.20m	1	30.00	1.10	1.00	33.00	
	Ch:72.20 to 85.70m	1	13.50	1.10	1.00	14.85	
	Ch:85.70 to 96.50m	1	10.80	1.10	1.00	11.88	
	Ch:96.50 to 106.90m	1	10.40	1.10	1.00	11.44	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 60.00m	1	30.00	1.10	1.00	33.00	
	Ch:60.00 to 85.00m	1	25.00	1.10	1.00	27.50	
	Ch:85.00 to 106.50m	1	21.50	1.00	1.00	21.50	
	2nd Cross Rd						
	LHS From Main Rd						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 43.00m	1	13.00	1.10	1.00	14.30	
	House Gap						
	Ch:43.00 to 73.00m	1	30.00	1.10	1.00	33.00	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 9

Contractor

NEWZEN CONSULTANT Bangalore
Consultant

Asst. Engineer

Asst. Executive Engineer
Proj...
Yel... Asst. Exec. Engineer
...BMP, Bangalore - 9...

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Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:73.00 to 85.70m	1	12.70	1.10	1.00	13.97	
	Ch:85.70 to 96.10m	1	10.40	1.10	1.00	11.44	
	RHS From End						
	Ch:0.00 to 21.10m	1	21.10	1.10	1.00	23.21	
	Connecting Road						
	LHS From 1st Cross Rd						
	Ch:0.00 to 24.00m	1	24.00	1.10	1.00	26.40	
	Culvert						
	Ch:24.00 to 54.00m	1	30.00	1.10	1.00	33.00	
	Ch:54.00 to 57.10m	1	3.10	1.10	1.00	3.41	
	Culvert						
	Ch:57.10 to 81.50m	1	24.40	1.10	1.00	26.84	
	Ch:81.50 to 88.50m	1	7.00	1.10	1.00	7.70	
	RHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 36.50m	1	6.50	1.10	1.00	7.15	
	Ch:36.50 to 45.60m	1	9.10	0.40	0.35	1.27	
	Ch:45.60 to 57.90m	1	12.30	0.40	0.35	1.72	
	3rd Cross Rd						
	RHS From Main Rd						
	Ch:0.00 to 22.00m	1	22.00	0.45	0.40	3.96	
	Ch:22.00 to 25.20m	1	3.20	0.45	0.40	0.58	
	Ch:25.20 to 32.70m	1	7.50	0.45	0.40	1.35	
	Ch:32.70 to 42.20m	1	9.50	0.45	0.40	1.71	
	Ch:42.20 to 72.20m	1	30.00	0.45	0.40	5.40	
	Ch:72.20 to 85.70m	1	13.50	0.45	0.40	2.43	
	Ch:85.70 to 96.50m	1	10.80	0.45	0.40	1.94	
	Ch:96.50 to 106.90m	1	10.40	0.45	0.40	1.87	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	0.45	0.40	5.40	
	Ch:30.00 to 60.00m	1	30.00	0.45	0.40	5.40	
	Ch:60.00 to 85.00m	1	25.00	0.45	0.40	4.50	
	Ch:85.00 to 106.50m	1	21.50	0.45	0.40	3.87	
	Kogilu Mn To Lake						
	Ch:0.00 to 30.00m	1	30.00	3.00	1.90	171.00	
	Ch:30.00 to 60.00m	1	30.00	3.00	1.90	171.00	
	Ch:60.00 to 81.00m	1	21.00	3.00	1.90	119.70	
	Ch:81.00 to 91.50m	1	10.50	3.00	1.90	59.85	
	Ch:91.50 to 121.50m	1	30.00	3.00	1.90	171.00	
	Ch121.50 to 151.50m	1	30.00	3.00	1.90	171.00	
	Ch:151.50 to 181.50m	1	30.00	3.00	1.90	171.00	
	Ch:181.50 to 211.50m	1	30.00	3.00	1.90	171.00	
	Ch:211.50 to 241.50m	1	30.00	3.00	1.90	171.00	
	Ch:241.50 to 271.50m	1	30.00	3.00	1.90	171.00	

Contractor

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Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:271.50 to 290.30m	1	18.80	3.00	1.90	107.16	
	Ch:290.30 to 302.30m	1	12.00	3.00	1.90	68.40	
	Shivapura						
	2nd B Cross Road						
	RHS From Cross Road						
	Ch:0.00 to 7.00m	1	7.00	1.10	1.00	7.70	
	Ch:7.00 to 30.00m	1	23.00	1.10	1.00	25.30	
	Ch:30.00 to 48.10m	1	18.10	1.10	1.00	19.91	
	Ch:48.10 to 70.40m	1	22.30	1.10	1.00	24.53	
	LHS						
	Ch:0.00 to 25.00m	1	25.00	1.10	1.00	27.50	
	Ch:25.00 to 55.00m	1	30.00	1.10	1.00	33.00	
	Ch:55.00 to 57.60m	1	2.60	1.10	1.00	2.86	
	Rd Gap						
	Ch:57.60 to 76.40m	1	18.80	1.10	1.00	20.68	
	Rd Gap						
	Ch:76.40 to 89.60m	1	13.20	1.10	1.00	14.52	
	Cross Road 01						
	LHS From 2nd B Cross Road						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.90	29.70	
	Ch:30.00 to 60.00m	1	30.00	1.10	0.90	29.70	
	Ch:60.00 to 67.30m	1	7.30	1.10	1.00	8.03	
	Cross Road 03						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch:30.00 to 60.00m	1	30.00	1.10	1.00	33.00	
	Ch:60.00 to 66.20m	1	6.20	1.10	1.00	6.82	
	RCC Culvert						
	OM Circle						
	Connecting Road						
		1	5.50	1.50	1.00	8.25	
		1	6.40	1.50	1.00	9.60	
		1	7.90	1.50	0.90	10.67	
	Shivapura						
	2nd B Cross Road	1	6.20	1.50	0.90	8.37	
		1	7.40	1.50	0.90	9.99	
					Present Qty	**2881.19**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 9

Contractor

NEWZEN CONSULTANT Bangalore
Consultant

Asst. Engineer 12/12/20

Asst. Exec. Engineer

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Name of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
2	KSRRB M2100-10. Providing and laying **Plain cement concrete** of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.						
	RCC Drain						
	Reva College Rd						
	RHS From Main Rd						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 51.60m	1	21.60	1.10	0.15	3.56	
	Gap						
	Ch:51.60 to 60.60m	1	9.00	1.10	0.15	1.49	
	Ch:60.60 to 89.10m	1	28.50	1.10	0.15	4.70	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 60.00m	1	30.00	1.10	0.15	4.95	
	Ch:60.00 to 65.50m	1	5.50	1.10	0.15	0.91	
	Ch:65.50 to 95.50m	1	30.00	1.10	0.15	4.95	
	Ch:95.50 to 125.50m	1	30.00	1.10	0.15	4.95	
	Ch:125.50 to 142.30m	1	16.80	1.10	0.15	2.77	
	OM Circle						
	1st Cross Rd						
	RHS From Main Rd						
	Ch:0.00 to 22.00m	1	22.00	1.10	0.15	3.63	
	Ch:22.00 to 25.20m	1	3.20	1.10	0.15	0.53	
	Ch:25.20 to 32.70m	1	7.50	1.10	0.15	1.24	
	Ch:32.70 to 42.20m	1	9.50	1.10	0.15	1.57	
	Ch:42.20 to 72.20m	1	30.00	1.10	0.15	4.95	
	Ch:72.20 to 85.70m	1	13.50	1.10	0.15	2.23	
	Ch:85.70 to 96.50m	1	10.80	1.10	0.15	1.78	
	Ch:96.50 to 106.90m	1	10.40	1.10	0.15	1.72	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 60.00m	1	30.00	1.10	0.15	4.95	
	Ch:60.00 to 85.00m	1	25.00	1.10	0.15	4.13	
	Ch:85.00 to 106.50m	1	21.50	1.00	0.15	3.23	
	2nd Cross Rd						
	LHS From Main Rd						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	

12/12/20

Executive Engineer

Asst. Exec. Engineer

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Asst. Exec. Engineer

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Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:30.00 to 43.00m	1	13.00	1.10	0.15	2.15	
	House Gap						
	Ch:43.00 to 73.00m	1	30.00	1.10	0.15	4.95	
	Ch:73.00 to 85.70m	1	12.70	1.10	0.15	2.10	
	Ch:85.70 to 96.10m	1	10.40	1.10	0.15	1.72	
	RHS From End						
	Ch:0.00 to 21.10m	1	21.10	1.10	0.15	3.48	
	Connecting Road						
	LHS From 1st Cross Rd						
	Ch:0.00 to 24.00m	1	24.00	1.10	0.15	3.96	
	Culvert						
	Ch:24.00 to 54.00m	1	30.00	1.10	0.15	4.95	
	Ch:54.00 to 57.10m	1	3.10	1.10	0.15	0.51	
	Culvert						
	Ch:57.10 to 81.50m	1	24.40	1.10	0.15	4.03	
	Ch:81.50 to 88.50m	1	7.00	1.10	0.15	1.16	
	RHS From End						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 36.50m	1	6.50	1.10	0.15	1.07	
	Kogilu Mn To Lake						
	Ch:0.00 to 30.00m	1	30.00	3.00	0.15	13.50	
	Ch:30.00 to 60.00m	1	30.00	3.00	0.15	13.50	
	Ch:60.00 to 81.00m	1	21.00	3.00	0.15	9.45	
	Ch:81.00 to 91.50m	1	10.50	3.00	0.15	4.73	
	Ch:91.50 to 121.50m	1	30.00	3.00	0.15	13.50	
	Ch121.50 to 151.50m	1	30.00	3.00	0.15	13.50	
	Ch:151.50 to 181.50m	1	30.00	3.00	0.15	13.50	
	Ch:181.50 to 211.50m	1	30.00	3.00	0.15	13.50	
	Ch:211.50 to 241.50m	1	30.00	3.00	0.15	13.50	
	Ch:241.50 to 271.50m	1	30.00	3.00	0.15	13.50	
	Ch:271.50 to 290.30m	1	18.80	3.00	0.15	8.46	
	Ch:290.30 to 302.30m	1	12.00	3.00	0.15	5.40	
	Shivapura						
	2nd B Cross Road						
	RHS From Cross Road						
	Ch:0.00 to 7.00m	1	7.00	1.10	0.15	1.16	
	Ch:7.00 to 30.00m	1	23.00	1.10	0.15	3.80	
	Ch:30.00 to 48.10m	1	18.10	1.10	0.15	2.99	
	Ch:48.10 to 70.40m	1	22.30	1.10	0.15	3.68	
	LHS						
	Ch:0.00 to 25.00m	1	25.00	1.10	0.15	4.13	
	Ch:25.00 to 55.00m	1	30.00	1.10	0.15	4.95	
	Ch:55.00 to 57.60m	1	2.60	1.10	0.15	0.43	
	Rd Gap						

Contractor

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Asst. Engineer

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Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:57.60 to 76.40m	1	18.80	1.10	0.15	3.10	
	Rd Gap						
	Ch:76.40 to 89.60m	1	13.20	1.10	0.15	2.18	
	Cross Road 01						
	LHS From 2nd B Cross Road						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 60.00m	1	30.00	1.10	0.15	4.95	
	Ch:60.00 to 67.30m	1	7.30	1.10	0.15	1.20	
	Cross Road 03						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch:30.00 to 60.00m	1	30.00	1.10	0.15	4.95	
	Ch:60.00 to 66.20m	1	6.20	1.10	0.15	1.02	
	RCC Culvert						
	OM Circle						
	Connecting Road						
		1	5.50	1.50	0.15	1.24	
		1	6.40	1.50	0.15	1.44	
		1	7.90	1.50	0.15	1.78	
	Shivapura						
	2nd B Cross Road	1	6.20	1.50	0.15	1.40	
		1	7.40	1.50	0.15	1.67	

CONTINUED

CPC 2.2.W 4/12/2020

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 9

Contractor

NEWZEN CONSULTANT Bangalore
Consultant

14/12/20
Asst. Engineer

Asst. Executive Eng
Asst. Exec. Engineer
BBMP, Bangalore

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Measurement Recorded On:							
	CC Road						
	Haj Bhavan Road						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 6.00) / 2	0.15	29.03	
	Ch:30.00m to 60.00m	1	30.00	(5.10 + 4.90) / 2	0.15	22.50	
	Ch:60.00m to 90.00m	1	30.00	(4.90 + 4.80) / 2	0.15	21.83	
	Ch:90.00m to 120.00m	1	30.00	(4.80 + 5.00) / 2	0.15	22.05	
	Ch:120.00m to 150.00m	1	30.00	(5.00 + 4.90) / 2	0.15	22.28	
	Ch:150.00m to 180.00m	1	30.00	(4.90 + 4.90) / 2	0.15	22.05	
	Ch:180.00m to 193.50m	1	13.50	(4.90 + 4.80) / 2	0.15	9.82	
				Total Qty	**454.56**	**Cum**	
				Up to 125%	**418.65**	**Cum**	
				Above 125%	**35.91**	**Cum**	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangaiore - 92

Contractor

Consultant

Asst. Engineer

15/12/20

Asst. Exec. Engineer

Asst. Executive Engi
Project Division
BBMP, Bangaiore -

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Name of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Detailed Measurements

easurement Recorded On:

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.						
	RCC Drain						
	Reva College Rd						
	RHS From Main Rd						
	Total Drain Length=89.10m						
	Main Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @160mm c/c						
	d=0.61kg/m						
	No of U Bars=636	636	2.05		0.61	795.32	
	No of distrubution Bars=14	14	89.10		0.61	760.91	
	LHS From End						
	Total Drain Length=142.30m						
	Main Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @160mm c/c						
	d=0.61kg/m						
	No of U Bars=1015	1015	2.05		0.61	1269.26	
	No of distrubution Bars=14	14	142.30		0.61	1215.24	
	OM Circle						
	1st Cross Rd						
	RHS From Main Rd						
	Total Drain Length=106.90m						
	Main Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @150mm c/c						
	d=0.61kg/m						
	No of U Bars=764	764	2.10		0.61	978.68	
	No of distrubution Bars=14	14	106.90		0.61	912.93	
	LHS From End						
	Total Drain Length=85.00m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @150mm c/c						
	d=0.61kg/m						
	No of U Bars=680	680	2.10		0.61	871.08	

15/12/20

Asst. Executive Engine
Project Division
Yelahanka

Contractor

NEWZEN CONSULTANT Bangalore
Consultant

15/12/20
Asst. Engineer

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Project Division
Asst. Exec. Engineer

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	No of distrubution Bars=14	14	85.00		0.61	725.90	
	Total Drain Length=21.50m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 8mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=172	172	1.90		0.61	199.35	
	No of distrubution Bars=12	12	21.50		0.61	157.38	
	2nd Cross Rd						
	LHS From Main Rd						
	Total Drain Length=96.10m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 8mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=769	769	2.05		0.61	961.63	
	No of distrubution Bars=14	14	96.10		0.61	820.69	
	RHS From End						
	Total Drain Length=21.10m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=168	168	2.10		0.61	215.21	
	No of distrubution Bars=14	14	21.10		0.61	180.19	
	Connecting Road						
	LHS From 1st Cross Rd						
	Total Drain Length=88.50m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=708	708	2.10		0.61	906.95	
	No of distrubution Bars=14	14	88.50		0.61	755.79	
	RHS From End						
	Total Drain Length=36.50m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=292	292	2.10		0.61	374.05	
	No of distrubution Bars=14	14	36.50		0.61	311.71	
	Shivapura						

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

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Asst. Engineer

Asst. Exec. Engineer

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No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	2nd B Cross Road						
	RHS From Cross Road						
	Total Drain Length=70.40m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Burs=587						
	No of distrubution Bars=14	587	2.05		0.61	734.04	
	LHS	14	70.40		0.61	601.22	
	Total Drain Length=89.60m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=747						
	No of distrubution Bars=14	747	2.05		0.61	934.12	
	Cross Road 01	14	89.60		0.61	765.18	
	LHS From 2nd B Cross Road						
	Total Drain Length=67.30m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=539						
	No of distrubution Bars=14	538	2.05		0.61	672.77	
	Cross Road 03	14	67.30		0.61	574.749	
	RHS						
	Total Drain Length=66.20m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=530						
	No of distrubution Bars=14	529	2.05		0.61	661.51	
	Kogilu Mn To Lake	14	66.20		0.61	565.35	
	Total Drain Length=302.30m						
	Main Bar 12mm dia @100mm c/c						
	d=0.89kg/m						
	Distrubution Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	No of U Bars=6046	6046	4.55		0.89	24483.28	
	No of distrubution Bars=76	76	302.30		0.61	14014.63	
	Drain Top Slab						

Asst. Engineer

Asst. Executive Engineer
Asst. Exec. Engineer
BBMP, Bangalore - 92

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Sl. No.	Description of Item	No	Length	Breadth	Depth	Qty	Unit
	Total Drain Length=902.30m						
	Main Bar 12mm dia @150mm c/c						
	d^2/162kg/m						
	Distribution Bar 10mm dia @250mm c/c						
	d^2/162kg/m						
	No of L Bars=506	506	1.80		0.89	810.12	
	No of distribution Bars=30	30	302.30		0.61	5532.09	
	Culverts						
	Total Drain Length=33.40m						
	Main Bar 12mm dia @140mm c/c						
	d^2/162kg/m						
	Distribution Bar 10mm dia @180mm c/c						
	d^2/253kg/m						
	No of L Bars=478	478	2.35		0.89	999.74	
	No of distribution Bars=24	24	33.40		0.61	488.98	
						72741.14	
					Present Qty	72.74	Tn

Asst. Executive Engineer
Project Division
BBMF, Bangalore - 92

Asst. Engineer

Asst. Exec. Engineer
BBMF, Bangalore - 92

Consultant

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Name of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm						
	RCC Drain						
	Bottom Slab						
	Reva College Rd						
	RHS From Main Rd						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 51.60m	1	21.60	0.90	0.15	2.92	
	Gap						
	Ch:51.60 to 60.60m	1	9.00	0.90	0.15	1.22	
	Ch:60.60 to 89.10m	1	28.50	0.90	0.15	3.85	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 60.00m	1	30.00	0.90	0.15	4.05	
	Ch:60.00 to 65.50m	1	5.50	0.90	0.15	0.74	
	Ch:65.50 to 95.50m	1	30.00	0.90	0.15	4.05	
	Ch:95.50 to 125.50m	1	30.00	0.90	0.15	4.05	
	Ch:125.50 to 142.30m	1	16.80	0.90	0.15	2.27	
	OM Circle						
	1st Cross Rd						
	RHS From Main Rd						
	Ch:0.00 to 22.00m	1	22.00	0.90	0.15	2.97	
	Ch:22.00 to 25.20m	1	3.20	0.90	0.15	0.43	
	Ch:25.20 to 32.70m	1	7.50	0.90	0.15	1.01	
	Ch:32.70 to 42.20m	1	9.50	0.90	0.15	1.28	
	Ch:42.20 to 72.20m	1	30.00	0.90	0.15	4.05	
	Ch:72.20 to 85.70m	1	13.50	0.90	0.15	1.82	
	Ch:85.70 to 96.50m	1	10.80	0.90	0.15	1.46	
	Ch:96.50 to 106.90m	1	10.40	0.90	0.15	1.40	
	LHS From End						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 60.00m	1	30.00	0.90	0.15	4.05	
	Ch:60.00 to 85.00m	1	25.00	0.90	0.15	3.38	
	Ch:85.00 to 106.50m	1	21.50	0.75	0.15	2.42	
	2nd Cross Rd						
	LHS From Main Rd						

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 9

ntractor

Consultant

Asst. Engineer

Asst. Executive Engin
Project Division
Asst. Exec. Engineer
Yelahanka Zone
BBMP, Bangalore - 9

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tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 43.00m	1	13.00	0.90	0.15	1.76	
	House Gap						
	Ch:43.00 to 73.00m	1	30.00	0.90	0.15	4.05	
	Ch:73.00 to 85.70m	1	12.70	0.90	0.15	1.71	
	Ch:85.70 to 96.10m	1	10.40	0.90	0.15	1.40	
	RHS From End						
	Ch:0.00 to 21.10m	1	21.10	0.90	0.15	2.85	
	Connecting Road						
	LHS From 1st Cross Rd						
	Ch:0.00 to 24.00m	1	24.00	0.90	0.15	3.24	
	Culvert						
	Ch:24.00 to 54.00m	1	30.00	0.90	0.15	4.05	
	Ch:54.00 to 57.10m	1	3.10	0.90	0.15	0.42	
	Culvert						
	Ch:57.10 to 81.50m	1	24.40	0.90	0.15	3.29	
	Ch:81.50 to 88.50m	1	7.00	0.90	0.15	0.95	
	RHS From End						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 36.50m	1	6.50	0.90	0.15	0.88	
	Shivapura						
	2nd B Cross Road						
	RHS From Cross Road						
	Ch:0.00 to 7.00m	1	7.00	0.90	0.15	0.95	
	Ch:7.00 to 30.00m	1	23.00	0.90	0.15	3.11	
	Ch:30.00 to 48.10m	1	18.10	0.90	0.15	2.44	
	Ch:48.10 to 70.40m	1	22.30	0.90	0.15	3.01	
	LHS						
	Ch:0.00 to 25.00m	1	25.00	0.90	0.15	3.38	
	Ch:25.00 to 55.00m	1	30.00	0.90	0.15	4.05	
	Ch:55.00 to 57.60m	1	2.60	0.90	0.15	0.35	
	Rd Gap						
	Ch:57.60 to 76.40m	1	18.80	0.90	0.15	2.54	
	Rd Gap						
	Ch:76.40 to 89.60m	1	13.20	0.90	0.15	1.78	
	Cross Road 01						
	LHS From 2nd B Cross Road						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 60.00m	1	30.00	0.90	0.15	4.05	
	Ch:60.00 to 67.30m	1	7.30	0.90	0.15	0.99	
	Cross Road 03						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00 to 60.00m	1	30.00	0.90	0.15	4.05	
	Ch:60.00 to 66.20m	1	6.20	0.90	0.15	0.84	

C&FC
Asst. Executive Engineer
Procurement Division
Yelahanka Zone
BBMP, Bangalore - 9

Contractor

NEWZEN CONSULTANT Bangalore
Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Kogilu Mn To Lake						
	Ch:0.00 to 30.00m	1	30.00	2.20	0.20	13.20	
	Ch:30.00 to 60.00m	1	30.00	2.20	0.20	13.20	
	Ch:60.00 to 81.00m	1	21.00	2.20	0.20	9.24	
	Ch:81.00 to 91.50m	1	10.50	2.20	0.20	4.62	
	Ch:91.50 to 121.50m	1	30.00	2.20	0.20	13.20	
	Ch121.50 to 151.50m	1	30.00	2.20	0.20	13.20	
	Ch:151.50 to 181.50m	1	30.00	2.20	0.20	13.20	
	Ch:181.50 to 211.50m	1	30.00	2.20	0.20	13.20	
	Ch:211.50 to 241.50m	1	30.00	2.20	0.20	13.20	
	Ch:241.50 to 271.50m	1	30.00	2.20	0.20	13.20	
	Ch:271.50 to 290.30m	1	18.80	2.20	0.20	8.27	
	Ch:290.30 to 302.30m	1	12.00	2.50	0.20	6.00	
	Drain Top Slab						
	Ch:0.00 to 30.00m	1	30.00	1.80	0.20	10.80	
	Ch:30.00 to 60.00m	1	30.00	1.80	0.20	10.80	
	Ch:60.00 to 81.00m	1	21.00	1.80	0.20	7.56	
	Ch:81.00 to 91.50m	1	10.50	1.80	0.20	3.78	
	Ch:91.50 to 121.50m	1	30.00	1.80	0.20	10.80	
	Ch121.50 to 151.50m	1	30.00	1.80	0.20	10.80	
	Ch:151.50 to 181.50m	1	30.00	1.80	0.20	10.80	
	Ch:181.50 to 211.50m	1	30.00	1.80	0.20	10.80	
	Ch:211.50 to 241.50m	1	30.00	1.80	0.20	10.80	
	Ch:241.50 to 271.50m	1	30.00	1.80	0.20	10.80	
	Ch:271.50 to 290.30m	1	18.80	1.80	0.20	6.77	
	Ch:290.30 to 302.30m	1	12.00	2.20	0.20	5.28	
	Side Wall						
	Reva College Rd						
	RHS From Main Rd						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00 to 51.60m	2	21.60	0.15	0.60	3.89	
	Gap						
	Ch:51.60 to 60.60m	2	9.00	0.15	0.45	1.22	
	Ch:60.60 to 89.10m	2	28.50	0.15	0.45	3.85	
	LHS From End						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.50	4.50	
	Ch:30.00 to 60.00m	2	30.00	0.15	0.50	4.50	
	Ch:60.00 to 65.50m	2	5.50	0.15	0.50	0.83	
	Ch:65.50 to 95.50m	2	30.00	0.15	0.60	5.40	
	Ch:95.50 to 125.50m	2	30.00	0.15	0.60	5.40	
	Ch:125.50 to 142.30m	2	16.80	0.15	0.60	3.02	
	OM Circle						
	1st Cross Rd						
	RHS From Main Rd						
	Ch:0.00 to 22.00m	2	22.00	0.15	0.60	3.96	

Checked 18/1/2021

Contractor

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Consultant

Asst. Engineer 19/1/21

Asst. Exec. Engineer 19/1/21

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:22.00 to 25.20m	2	3.20	0.15	0.60	0.58	
	Ch:25.20 to 32.70m	2	7.50	0.15	0.60	1.35	
	Ch:32.70 to 42.20m	2	9.50	0.15	0.60	1.71	
	Ch:42.20 to 72.20m	2	30.00	0.15	0.50	4.50	
	Ch:72.20 to 85.70m	2	13.50	0.15	0.50	2.03	
	Ch:85.70 to 96.50m	2	10.80	0.15	0.50	1.62	
	Ch:96.50 to 106.90m	2	10.40	0.15	0.50	1.56	
	LHS From End						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00 to 60.00m	2	30.00	0.15	0.60	5.40	
	Ch:60.00 to 85.00m	2	25.00	0.15	0.60	4.50	
	Ch:85.00 to 106.50m	2	21.50	0.15	0.60	3.87	
	2nd Cross Rd						
	LHS From Main Rd						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.50	4.50	
	Ch:30.00 to 43.00m	2	13.00	0.15	0.60	2.34	
	House Gap						
	Ch:43.00 to 73.00m	2	30.00	0.15	0.60	5.40	
	Ch:73.00 to 85.70m	2	12.70	0.15	0.60	2.29	
	Ch:85.70 to 96.10m	2	10.40	0.15	0.45	1.40	
	RHS From End						
	Ch:0.00 to 21.10m	2	21.10	0.15	0.60	3.80	
	Connecting Road						
	LHS From 1st Cross Rd						
	Ch:0.00 to 24.00m	2	24.00	0.15	0.60	4.32	
	Culvert						
	Ch:24.00 to 54.00m	2	30.00	0.15	0.60	5.40	
	Ch:54.00 to 57.10m	2	3.10	0.15	0.60	0.56	
	Culvert						
	Ch:57.10 to 81.50m	2	24.40	0.15	0.60	4.39	
	Ch:81.50 to 88.50m	2	7.00	0.15	0.60	1.26	
	RHS From End						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00 to 36.50m	2	6.50	0.15	0.60	1.17	
	Shivapura						
	2nd B Cross Road						
	RHS From Cross Road						
	Ch:0.00 to 7.00m	2	7.00	0.15	0.60	1.26	
	Ch:7.00 to 30.00m	2	23.00	0.15	0.60	4.14	
	Ch:30.00 to 48.10m	2	18.10	0.15	0.60	3.26	
	Ch:48.10 to 70.40m	2	22.30	0.15	0.60	4.01	
	LHS						
	Ch:0.00 to 25.00m	2	25.00	0.15	0.60	4.50	
	Ch:25.00 to 55.00m	2	30.00	0.15	0.60	5.40	
	Ch:55.00 to 57.60m	2	2.60	0.15	0.60	0.47	

Asst. Engineer

Asst. Exec. Engineer

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Rd Gap						
	Ch:57.60 to 76.40m	2	18.80	0.15	0.60	3.38	
	Rd Gap						
	Ch:76.40 to 89.60m	2	13.20	0.15	0.60	2.38	
	Cross Road 01						
	LHS From 2nd B Cross Road						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00 to 60.00m	2	30.00	0.15	0.60	5.40	
	Ch:60.00 to 67.30m	2	7.30	0.15	0.60	1.31	
	Cross Road 02						
	LHS						
	Ch:0.00 to 30.00m	0	30.00	0.15	0.60	0.00	
	Ch:30.00 to 32.10m	0	2.10	0.15	0.60	0.00	
	RHS From End						
	Ch:0.00 to 9.00m	0	9.00	0.15	0.60	0.00	
	Ch:9.00 to 30.00m	0	21.00	0.15	0.60	0.00	
	Ch:30.00 to 32.50m	0	2.50	0.15	0.60	0.00	
	Cross Road 03						
	RHS						
	Ch:0.00 to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00 to 60.00m	2	30.00	0.15	0.60	5.40	
	Ch:60.00 to 66.20m	2	6.20	0.15	0.60	1.12	
	Kogilu Mn To Lake						
	Ch:0.00 to 30.00m	2	30.00	0.20	1.50	18.00	
	Ch:30.00 to 60.00m	2	30.00	0.20	1.50	18.00	
	Ch:60.00 to 81.00m	2	21.00	0.20	1.50	12.60	
	Ch:81.00 to 91.50m	2	10.50	0.20	1.20	5.04	
	Ch:91.50 to 121.50m	2	30.00	0.20	1.50	18.00	
	Ch121.50 to 151.50m	2	30.00	0.20	1.50	18.00	
	Ch:151.50 to 181.50m	2	30.00	0.20	1.50	18.00	
	Ch:181.50 to 211.50m	2	30.00	0.20	1.50	18.00	
	Ch:211.50 to 241.50m	2	30.00	0.20	1.50	18.00	
	Ch:241.50 to 271.50m	2	30.00	0.20	1.50	18.00	
	Ch:271.50 to 290.30m	2	18.80	0.20	1.50	11.28	
	Ch:290.30 to 302.30m	2	12.00	0.20	1.00	4.80	
	Culvert Raft						
	OM Circle						
	Connecting Road						
		1	5.50	1.20	0.23	1.52	
		1	6.40	1.20	0.23	1.77	
		1	7.90	1.20	0.23	2.18	
	Shivapura						
	2nd B Cross Road	1	6.20	1.20	0.23	1.71	
		1	7.40	1.20	0.23	2.04	
	Culvert Wall						
	OM Circle						

Contractor

NEWZEN CONSULTANT Bangalore

Consultant

Asst. Engineer

Asst. Executive Engineer
Rajarajeshwari Division
BBMP, Bangalore

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Connecting Road						
		2	5.50	0.23	0.45	1.14	
		2	6.40	0.23	0.45	1.32	
		2	7.90	0.23	0.45	1.64	
	Shivapura						
	2nd B Cross Road	2	6.20	0.23	0.50	1.43	
		2	7.40	0.23	0.50	1.70	
					Present Qty	**739.10**	**Cum**

Asst. Executive Engineer
Project Division
Asst. Exec. Engineer

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Asst. Exec. Engineer
BBMP

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Thickness as per Auth...

e of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Detailed Measurements

urement Recorded On:

	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.								
	Reva College Rd								
	Ch:0.00m to 30.00m	1	30.00	7.40	+	5.70	0.30	58.95	
				2					
	Ch:30.00m to 60.00m	1	30.00	5.70	+	5.80	0.30	51.75	
				2					
	Ch:60.00m to 67.50m	1	7.50	5.80	+	5.80	0.30	13.05	
				2					
	Ch:67.50m to 97.50m	1	30.00	5.60	+	6.00	0.30	52.20	
				2					
	Ch:97.50m to 127.50m	1	30.00	6.00	+	5.50	0.30	51.75	
				2					
	Ch:127.50m to 133.00m	1	5.50	5.40	+	5.40	0.30	8.91	
				2					
	OM Circle								
	1st Cross Road								
	Ch:0.00m to 30.00m	1	30.00	5.80	+	5.60	0.30	51.30	
				2					
	Ch:30.00m to 60.00m	1	30.00	5.60	+	5.70	0.30	50.85	
				2					
	Ch:60.00m to 90.00m	1	30.00	5.70	+	5.70	0.30	51.30	
				2					
	Ch:90.00m to 107.00m	1	17.00	5.70	+	6.00	0.30	29.84	
				2					
	2nd Cross Road								
	Ch:0.00m to 30.00m	1	30.00	5.00	+	5.40	0.30	46.80	
				2					
	Ch:30.00m to 60.00m	1	30.00	5.40	+	5.60	0.30	49.50	
				2					
	Ch:60.00m to 90.00m	1	30.00	5.60	+	5.70	0.30	50.85	
				2					
	Ch:90.00m to 106.80m	1	16.80	5.70	+	5.80	0.30	28.98	
				2					
	3rd Cross Road								
	Ch:0.00m to 30.00m	1	30.00	7.10	+	7.40	0.30	65.25	
				2					

NEWZEN CONSULTANTS Consultant

Asst. Engineer

Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth			Depth	Qty	Unit
Ch:30.00m to 60.00m	1	30.00	7.40	+	6.80	0.30	63.90	
			2					
Ch:60.00m to 90.00m	1	30.00	6.80	+	6.70	0.30	60.75	
			2					
Ch:90.00m to 107.00m	1	17.00	6.70	+	5.70	0.30	31.62	
			2					
Connecting Road								
Ch:0.00m to 30.00m	1	30.00	7.00	+	5.60	0.30	56.70	
			2					
Ch:30.00m to 60.00m	1	30.00	5.60	+	5.80	0.30	51.30	
			2					
Ch:60.00m to 90.00m	1	30.00	5.80	+	5.90	0.30	52.65	
			2					
Ch:90.00m to 104.00m	1	14.00	5.90	+	5.90	0.30	24.78	
			2					
Haj Bhavan Road								
Ch:0.00m to 30.00m	1	30.00	5.20	+	5.60	0.30	48.60	
			2					
Ch:30.00m to 60.00m	1	30.00	5.60	+	6.20	0.30	53.10	
			2					
Ch:60.00m to 73.50m	1	13.50	6.20	+	8.00	0.30	28.76	
			2					
Ch:73.50m to 103.50m	1	30.00	8.00	+	6.50	0.30	65.25	
			2					
Ch:103.50m to 133.50m	1	30.00	6.50	+	6.50	0.30	58.50	
			2					
Ch:163.50m to 163.50m	1	30.00	6.50	+	6.30	0.30	57.60	
			2					
Ch:163.50m to 193.50m	1	30.00	6.30	+	6.00	0.30	55.35	
			2					
Ch:193.50m to 223.50m	1	30.00	6.00	+	6.20	0.30	54.90	
			2					
Ch:223.50m to 253.50m	1	30.00	5.70	+	5.80	0.30	51.75	
			2					
Ch:253.50m to 283.50m	1	30.00	5.80	+	5.80	0.30	52.20	
			2					
Ch:283.50m to 302.50m	1	19.00	5.80	+	5.60	0.30	32.49	
			2					
CC Road								
Haj Bhavan Road								
Ch:0.00m to 30.00m	1	30.00	6.90	+	6.00	0.30	58.05	
			2					
Ch:30.00m to 60.00m	1	30.00	5.10	+	4.90	0.30	45.00	
			2					

Asst. Executive Engineer
Yelahanka
BBMP

Consultant

Asst. Engineer

Asst. Exec. Engineer

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	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch:60.00m to 90.00m	1	30.00	4.90	+	4.80	0.30	43.65	
				2					
	Ch:90.00m to 120.00m	1	30.00	4.80	+	5.00	0.30	44.10	
				2					
	Ch:120.00m to 150.00m	1	30.00	5.00	+	4.90	0.30	44.55	
				2					
	Ch:150.00m to 180.00m	1	30.00	4.90	+	4.90	0.30	44.10	
				2					
	Ch:180.00m to 193.50m	1	13.50	4.90	+	4.80	0.30	19.64	
				2					
							Present Qty	**1860.56**	**Cum**

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

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